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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/800,751	03/16/2004	Atsushi Oohashi	Q80418	1181	
23373	7590 09/30/2004		EXAMINER		
	MION, PLLC YLVANIA AVENUE, N.W.		LE, DANG D		
SUITE 800	ILVANIA AVENUE, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20037			2834		

DATE MAILED: 09/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

					C/A		
		Applica	ation No.	Applicant(s)			
Office Action Summary		10/800	,751	OOHASHI ET AL.			
		Examir	ner	Art Unit			
		Dang D		2834	-		
The Period for Re	e MAILING DATE of this commun ply	nication appears on	the cover sheet with the	correspondence address	-		
THE MAIL - Extensions after SIX (6) - If the period - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD F ING DATE OF THIS COMMUN of time may be available under the provision: MONTHS from the mailing date of this com- for reply specified above, is less than thirty (it for reply is specified above, the maximum supply within the set or extended period for replaceived by the Office later than three months and term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no munication. 30) days, a reply within the statutory period will apply and y will, by statute, cause the a	event, however, may a reply be ting statutory minimum of thirty (30) day of will expire SIX (6) MONTHS from application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communic D (35 U.S.C. § 133).	cation.		
Status							
1) Res	ponsive to communication(s) file	ed on					
2a) This	action is FINAL.	2b)⊠ This action is	s non-final.				
3) Sinc							
clos	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition o	f Claims						
4)⊠ Clai	☑ Claim(s) <u>1-9</u> is/are pending in the application.						
4a) (4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Clai	☑ Claim(s) <u>1-6</u> is/are allowed.						
6)⊠ Clai	☑ Claim(s) <u>7-9</u> is/are rejected.						
7)☐ Clai	Claim(s) is/are objected to.						
8)∐ Clai	Claim(s) are subject to restriction and/or election requirement.						
Application P	apers						
9) <u></u> The :	specification is objected to by the	ne Examiner.					
10)⊠ The drawing(s) filed on <u>16 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Appl	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Repl	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) <u></u> The ⋅	oath or declaration is objected t	o by the Examiner.	Note the attached Office	e Action or form PTO-15	2		
Priority unde	r 35 U.S.C. § 119						
•	owledgment is made of a claim I b)☐ Some * c)☐ None of:	for foreign priority	under 35 U.S.C. § 119(a	n)-(d) or (f).			
1.⊠	Certified copies of the priority	documents have b	een received.				
2.	Certified copies of the priority	documents have b	een received in Applicat	tion No			
3.	Copies of the certified copies	of the priority docu	ments have been receiv	ed in this National Stage)		
	application from the Internation	•	* **				
* See ti	ne attached detailed Office action	on for a list of the ce	ertified copies not receive	ed.			
Attack							
Attachment(s)	references Cited (DTO 800)		A) D Intoniou Summer	/ (DTO 413)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/16/04. 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

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DETAILED ACTION

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Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi et al. (6,150,741) in view of Asao (6,528,912).

Regarding claim 7, Hayashi et al. shows a rotary electric machine (Figures 1 and 2) comprising:

 A rectifier apparatus having positive-side (52) and negative-side (53) heat sinks each mounted with a plurality of diode elements and said rectifier apparatus being mounted to a housing by electrically-connecting said Application/Control Number: 10/800,751

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negative-side heat sink to said housing and securely fastening said positiveside and negative-side heat sinks (Figure 1);

- An output terminal (54) for extracting output from said rectifier apparatus; and
- A wiring harness terminal (92) mounted to said output terminal,
- Wherein said output terminal has a head portion disposed at an opposite end from an output extraction end of said output terminal and an external screw thread portion disposed at said output extraction end of said output terminal, said output terminal being mounted to said positive-side heat sink such that said head portion is in a state of close surface contact with a first surface of said positive-side heat sink (right side of 52, Figure 2), said output terminal passes through said positive-side heat sink, and said external screw thread portion projects outward from said housing,
- A tubular relay member (55) is mounted to said output terminal such that a first end of said relay member is in a state of close surface contact with a second surface of said positive-side heat sink (left side of 52), and
- Said wiring harness terminal (92) is securely fastened to said positive-side heat sink through said relay member by means of a nut (96) screwed onto said external screw thread portion so as to be in a state of close surface contact with a second end (at 56) of said relay member.

Hayashi et al. does not show a circuit board made of a resin in which insert conductors for connecting said diode elements are insert molded and fastening and said circuit board to a mounting surface of said housing.

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Asao shows a circuit board (25) made of a resin in which insert conductors for connecting said diode elements are insert molded and fastening and said circuit board to a mounting surface of said housing for the purpose of providing a faster electrical connection

Since Hayashi et al. and Asao are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include a resinous circuit board as taught by Asao for the purpose discussed above.

Regarding claim 8 and 9, it is noted that Hayashi et al. and Asao also show all of the limitations of the claimed invention.

Allowable Subject Matter

- 4. Claims 1-6 are allowed.
- 5. The following is a statement of reasons for the indication of allowable subject matter: the record of prior art does not show a rotary electric machine comprising a mounting member having a head portion disposed at an opposite end from an output extraction end and an output terminal mounting external screw thread portion disposed at said output extraction end, said mounting member being mounted to said positive-side heat sink such that said head portion is in a state of close surface contact with a first surface of said positive-side heat sink, said mounting member passes through said positive-side heat sink, and said output terminal mounting external screw thread portion

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projects outward from a second surface of said positive-side heat sink, Said output terminal has a coupling seat, a wiring harness terminal mounting external screw thread portion disposed at an output extraction end of said coupling seat and a mounting portion disposed on at an opposite end from said output extraction end of said coupling seat, said output terminal being mounted to said positive-side heat sink by securely fastening said mounting portion to said second surface of said positive-side heat sink in a state of surface contact by means of an output terminal mounting nut screwed onto said output terminal mounting external screw thread portion such that said coupling seat and said wiring harness terminal mounting external screw thread portion project outward from said housing.

Information on How to Contact USPTO

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dang D Le whose telephone number is (571) 272-2027. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Song La

9/25/04

DANG LE

PRIMARY EXAMINER

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